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(54)ENZYME IMMUNOASSAY OF
COLLAGENASE INHIBITOR

(57)Abstract:

PURPOSE: To assay a collagenase inhibitor specifically and accurately, by using two kinds of monoclonal antibodies which are bonded specifically to an antigen determinant different in the bovine collagenase inhibitor.

CONSTITUTION: An anti-bovine collagenase inhibitor monoclonal antibody (e.g. clone 7-23G9) is bonded to a polystyrene ball. The antibody bonded ball thus obtained is added to

a sample solution to react and the product is washed. Then, an Fab'-POD(peroxidase) complex (e.g. clone 7-6C1-POD) is added to the product to react, and then the product is washed. Thereafter, tetramethylpentyldiyne and then a hydrogen peroxide solution are added to the product to react and the reaction is stopped with the addition of a sulfuric acid. The absorbance of the reaction mixture is measured and the amount of collagenase inhibitor in the sample is determined from a reference straight line.

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